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(Modified) PTO/SB/21 (6-98)
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	09/888,324
		Filing Date	June 22, 2001
		First Named Inventor	Juha Punnonen
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
Total Number of Pages in This Submission		Attorney Docket Number	02-106720US

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> X Additional Enclosure(s) (please identify below):
<input checked="" type="checkbox"/> X Information Disclosure Statement	<input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement	<input type="checkbox"/> receipt acknowledgment postcard 1449 Cited References
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

Authorization to Charge Deposit Account
Please charge Deposit Account No. 50-0893 for any additional fees associated with this paper or during the pendency of this application, including any extensions of time for consideration of the documents enclosed.

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Jonathan Alan Quine Reg. No. 41261, The Law Offices of Jonathan Alan Quine
Signature	
Date	11-7-01

CERTIFICATE OF MAILING

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Date	11/7/01



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The Law Offices of Jopathan Alan Quine

By Amelia Groth
Amelia Groth

Attorney Docket No. 02-106720US
Client Ref. No. 0169.310US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Juha Punnonen, *et al.*

Application No.: 09/888,324

Filed: June 22, 2001

For: NOVEL CO-STIMULATORY
MOLECULES

Examiner: Unassigned

Art Unit: Unassigned

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR § 1.97 and
§ 1.98

Assistant Commissioner for Patents
Washington , D.C. 20231

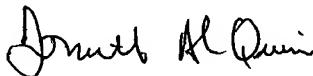
Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Jonathan Alan Quine
Reg. No. 41,261

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P A T E N T & T R A D E M A R K O F F I C E

Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	09/888,324
		Filing Date	June 22 2001
		First Named Inventor	Juha Punnonen
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
Attorney Docket Number	02-106720US		

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
	AA	5,512,463		Stemmer	04-30-1996	
	AB	5,514,588		Varadaraj	05-07-1996	
	AC	5,605,793		Stemmer	02-25-1997	
	AD	5,763,239		Short et al.	06-09-1998	
	AE	5,789,228		Lam et al.	08-04-1998	
	AF	5,811,238		Stemmer et al.	09-22-1998	
	AG	5,814,473		Warren et al.	09-29-1998	
	AH	5,824,469		Horwitz et al.	10-20-1998	
	AI	5,830,696		Short	11-03-1998	
	AJ	5,830,721		Stemmer et al.	11-03-1998	
	AK	5,834,252		Stemmer et al.	11-10-1998	
	AL	5,837,458		Minushull et al.	11-17-1998	
	AM	5,866,363		Pieczenik	02-02-1999	
	AN	5,876,997		Kretz	03-02-1999	
	AO	5,925,749		Mathur, et al.	07-20-1999	
	AP	5,928,905		Stemmer, et al.	07-27-1999	
	AQ	5,939,250		Short, Jay M.	08-17-1999	
	AR	5,939,300		Robertson, et al.	08-17-1999	
	AS	5,942,430		Robertson, et al.	08-24-1999	
	AT	5,948,666		Callen, et al.	09-07-1999	
	AU	5,958,672		Short, Jay M.	09-28-1999	
	AV	5,958,751		Murphy, et al.	09-28-1999	
	AW	5,962,258		Mathur, et al.	10-05-1999	
	AX	5,962,283		Warren et al.	10-05-1999	
	AY	5,965,408		Short, Jay M.	10-12-1999	
	AZ	5,985,646		Murphy, et al.	11-16-1999	
	BA	6,001,574		Short et al.	12-14-1999	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

O I P E
DEC 06 2001
JC88
PATENT & TRADEMARK OFFICE

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		Application Number		09/888,324	
		Filing Date		June 22 2001	
		First Named Inventor		Juha Punnonen	
		Group Art Unit		Unassigned	
		Examiner Name		Unassigned	
		Attorney Docket Number		02-106720US	

	BB	6,004,788		Short	12-21-1999	
	BC	6,030,779		Short	02-29-2000	
	BD	6,054,267		Short	04-25-2000	
	BE	6,057,103		Short	05-02-2000	
	BF	6,096,548		Stemmer	08-01-2000	
	BG	6,117,679		Stemmer	09-12-2000	
	BH	6,132,970		Stemmer	10-17-2000	
	BI	6,165,793		Stemmer	12-26-2000	
	BJ	6,168,919		Short	01-02-2001	
	BK	6,171,820		Short	01-09-2001	
	BL	6,174,673		Short, et al.	01-16-2001	
	BM	6,180,406		Stemmer	01-30-2001	
	BN	6,238,884		Short et al.	05-29-2001	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
BO	WO	97/07205			Novo Nordisk A/S	02-27-1997		
BP	WO	97/20078			Affymax Technologies	06-05-1997		
BQ	WO	97/25410			Novo Nordisk A/S	07-17-1997		
BR	WO	97/35957			Maxygen, Inc.	10-02-1997		
BS	WO	97/35966			Maxygen, Inc.	10-02-1997		
BT	WO	97/44361			Recombinant Biocatalysis Inc.	11-27-1997		
BU	WO	97/48416			Recombinant Biocatalysis, Inc.	12-24-1997		
BV	WO	97/48717			Recombinant Biocatalysis Inc	12-24-1997		
BW	WO	97/48794			Recombinant Biocatalysis Inc	12-24-1997		
BX	WO	98/00526			Recombinant	01-08-1998		
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Information Disclosure Statement by Applicant <i>(use as many sheets as necessary)</i>		Complete if Known			
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		Group Art Unit		Unassigned	
		Examiner Name		Unassigned	
Attorney Docket Number		02-106720US			

				Biocatalysis Inc			
	BY	WO	98/01581	Recombinant Biocatalysis Inc	01-15-1998		
	BZ	WO	98/13485	Maxygen, Inc.	04-02-1998		
	CA	WO	98/13487	Maxygen, Inc.	04-02-1998		
	CB	WO	98/24799	Diversa Corp.	06-11-1998		
	CC	WO	98/27230	Maxygen, Inc.	06-25-1998		
	CD	WO	98/28416	Novo Nordisk A/S	07-02-1998		
	CE	WO	98/31837	Maxygen, Inc.	07-23-1998		
	CF	WO	98/36080	The Dow Chemical Company	08-20-1998		
	CG	WO	98/41622	Novo Nordisk A/S	09-24-1998		
	CH	WO	98/41623	Novo Nordisk A/S	09-24-1998		
	CI	WO	98/41653	Novo Nordisk A/S	09-24-1998		
	CJ	WO	98/42832	California Institute of Technology	10-01-1998		
	CK	WO	98/48034	Diversa Corp.	10-29-1998		
	CL	WO	98/58085	Diversa Corp.	12-23-1998		
	CM	WO	99/07837	Diversa Corp.	02-19-1999		
	CN	WO	99/08539	Diversa Corp.	02-25-1999		
	CO	WO	99/10472	Diversa Corp.	03-04-1999		
	CP	WO	99/10539	Diversa Corp.	03-04-1999		
	CQ	WO	99/19518	Diversa Corp.	04-22-1999		
	CR	EP	0911396A2	Maxygen, Inc.	04-28-1999		
	CS	WO	99/21979	Maxygen, Inc.	05-06-1999		
	CT	EP	0911396A3	Maxygen, Inc.	05-06-1999		
	CU	WO	99/23107	Maxygen, Inc.	05-14-1999		
	CV	WO	99/23236	Diversa Corp.	05-14-1999		
	CW	WO	99/29902	California Institute of Technology et al.	06-17-1999		

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		Examiner Name		Unassigned	
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<input checked="" type="checkbox"/>	DE	WO	99/65927		Maxygen, Inc.	12-23-1999		
<input checked="" type="checkbox"/>	DF	WO	00/42560		Maxygen, Inc.	07-20-2000		
<input checked="" type="checkbox"/>	DG	WO	00/42561		Maxygen, Inc.	07-20-2000		
<input checked="" type="checkbox"/>	DH	WO	00/53744		Diversa Corporation	09-14-2000		
<input checked="" type="checkbox"/>	DI	WO	00/58517		Diversa Corporation	10-05-2000		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	DJ	Chang, C., et al. (1999) "Evolution of a cytokine using DNA family shuffling." <i>Nature Biotechnology</i> 17:793-797.	
	DK	Christians, F.C. et al., (1999) "Directed evolution of thymidine kinase for AZT phosphorylation using DNA family shuffling." <i>Nature Biotechnology</i> 17:259-264.	
	DL	Coco et al., (2001) "DNA shuffling method for generating highly recombinant genes and evolved enzymes" <i>Nature Biotechnology</i> vol. 19 pp. 354-359	
	DM	Crameri et al., (1993) "10(20)-Fold aptamer library amplification without gel purification." <i>Nuc. Acids Res.</i> 21(18):4410.	
	DN	Crameri, A. & Stemmer W.P.C. (1995) "Combinatorial multiple cassette mutagenesis creates all the permutations of mutant and wildtype cassettes." <i>Biotechniques</i> 18:194-195.	
	DO	Crameri, A. et al. (1996) "Improved green fluorescent protein by molecular evolution using DNA shuffling." <i>Nature Biotechnology</i> 14:315-319.	
	DP	Crameri, A. et al. (1996) "Construction and evolution of antibody-phage libraries by DNA shuffling." <i>Nature Medicine</i> 2:100-103.	
	DQ	Crameri, A. et al., (1997) "Molecular evolution of an arsenate detoxification pathway by DNA shuffling." <i>Nature Biotechnology</i> 15:436-438	

Examiner Signature		Date Considered	
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First Named Inventor	Juha Punnonen	
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Attorney Docket Number	02-106720US	

	DR	Crameri, A. et al., (1998) "DNA shuffling of a family of genes from diverse species accelerates directed evolution." <i>Nature</i> 391:288-291.
	DS	Gates, C.M. et al., (1996) "Affinity selective isolation of ligands from peptide libraries through display on a lac repressor 'headpiece dimer". <i>Journal of Molecular Biology</i> 255:373-386.
	DT	Minshull, J., Stemmer, W.P.C. (1999) "Protein evolution by molecular breeding." <i>Current Opinion in Chemical Biology</i> 3:284-290.
	DU	Ness, J. et al., (1999) "DNA shuffling of subgenomic sequences of subtilisin." <i>Nature Biotechnology</i> 17:893-896.
	DV	Patten, P.A. et al., (1997) "Application of DNA Shuffling to Pharmaceuticals and Vaccines." <i>Current Opinion in Biotechnology</i> 8:724-733.
	DW	Pelletier, Joelle N., (2001) "A Rachitt for our toolbox" <i>Nature Biotechnology</i> vol. 19, p. 314-315
	DX	Stemmer, W.P.C. (1994) "DNA Shuffling by random fragmentation and reassembly: In vitro recombination for molecular evolution." <i>PNAS</i> 91:10751
	DY	Stemmer, W.P.C. (1994) "Rapid evolution of a protein in vitro by DNA shuffling." <i>Nature</i> 370:389-391.
	DZ	Stemmer, W.P.C. (1995) "The Evolution of Molecular Computation." <i>Science</i> 270:1510
	EA	Stemmer, W.P.C. (1995) "Searching Sequence Space." <i>Bio/Technology</i> 13:549-553.
	EB	Stemmer, W.P.C. (1996) "Sexual PCR and Assembly PCR." In: <i>The Encyclopedia of Molecular Biology</i> . VCH Publishers, New York. pp. 447-457.
	EC	Stemmer, W.P.C. & Soong, N.W. (1999) "Molecular breeding of viruses for targeting and other clinical properties." <i>Tumor Targeting</i> 4:59-62.
	ED	Zhang, J. et al., (1997) "Directed evolution of an effective fucosidase from a galactosidase by DNA shuffling and screening." <i>Proceedings of the National Academy of Sciences, USA</i> 94:4504-4509.

Examiner Signature		Date Considered	
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